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BONCHKOYSKIY, V.F.; BUBLEYBIKOV, F.D.; ZISMAH, G.A., redsktor; NEGRIMOVSKAYA, R.A., tekhnicheskiy redsktor

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[Geological prospecting in Russis] Geologicheskie polski v Rossii.
Noskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane medr,
1956, 250 p.
(MIRA 10:2)

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PHASE I BOOK EXPLOITATION

SOV/1138

Bubleynikov, Feofan Dmitriyevich

Tayny zemli (Secrets of the Earth) Moscow, Moskovskiy rabochiy, 1958. 133 p. 35,000 copies printed.

Eds.: Shcherbakova, D.I., Academician, and Gringauz, S.; Tech. Ed.: Yegorova, I.

PURPOSE: The book is written mainly for the young reader.

COVERAGE: This is a popular account of the nature of physical geology, i.e., the origin of the Earth, land forms, formation of mineral deposits, etc. Particular attention is paid to the processes of mountain formation, sedimentation, and erosion including the effects of igneous activity and rock deformations. The author intimates that the book provides a popular explanation of all such processes which have hitherto been considered "great mysteries".

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MM/ar 3-23-59

BUBLEYNIKOV, F.D. (MORCOW); MORCZOV, V.V. (MORCOW); CHUPIK, I.P.;
VEYSOV, A.B. (Shemakha, AESSR)

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(Physics)

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[James Clerk Maxwell, 1831-1879] Dahems Klerk Mokavell, 1831-1879. Moskva, Isd-ve "Emenie," 1960. 47 p. (Yeseoiusnoe obahehestvo pe resprestrementiu politichesithin inauchnykh snanii. Sar.9, Fisika i khistie, no.19). (MIRA 13:10) (Maxwell, Jesse Clerk, 1831-1879)

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[How man has subdued nature] Kak chelovek pokorial prirodu. Moskva, Mosk.rabochii, 1960. 170 p.

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[Outline of the development of classical mechanics] Ocherk razvitiia klassicheskoi mekhaniki. Moakva, Gos. uchebno-pedagog. 12d-vo M-va prosv. RSFSR, 1961. 221 p. (MIRA 14:11) (Mechanics)

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Life and work. Priroda 53 no.2:57-64 164. (MIRA 17:2)

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BELYAYEV, Ye.I., prof. [deceased]; BADYUK, Ye.Ye.; BOGOROV, I.I., prof.; BUMICKENKO, L.I., prof.[deceased]; II.TH., I.V., dots.; KEYLIN, S.L., prof.; MAZHHITS, A.M., prof.; MAZHNIN, A.I., zasl. deyatel Kas.SRA, pfof.; MOSHKOV, B.N., prof.; NIKOLAYEV, A.P., prof.; PERSIAHINOV, L.S., prof.; POKROVSKIY, V.A., prof.; POLMKOVA, G.P., kand. med. neuk; RAFAL'KES, S.B., dots.; KHASKIN, S.G., prof.; SHIERN, I.A., prof.

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OSU-A _370

Geologicheskoye Stroyeniye Beregov Teletskogo Ozera i yego Proiskhozhdeniye: Geological Structure of the Shores of Lake Teletskoye and its Origin. Issledovaniya Ozer SSSR, No. 9, 1937, pp. 133-155 Library of Congress, GE1707-LID Cone of the monographs devoted to the study of Lake Teletskoye in the Altay Mountains. General Title: Raboty Teletskoy Ekspeditsii.



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(Kazakhstan-Geology, Stratigraphic)

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(Ural Mountain region—Geology)

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- 2. USSR (600)
- 4. Kara Tau Geology, Structural
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IVSHIN, N.K.; <u>RUBLIGHENEO, N.</u>L., doktor geologo-mineralogicheskikh nank otvetstvennyy redaktor; CHERNTSHEYA, N.Ye., kandidat geologomineralogicheskikh nank, otvetstvennyy redaktor; <u>RAKSHEIEVA</u>, M.A., redaktor; RORGKIMA, Z.P., tekhnichesky redaktor.

[Middle Cambrian trilobites of Kazakhstan] Srednekembriiskie trilobity Kazakhstana. Part I. [Boshchakul' faunalhorison] Boshchakul'skii faunisticheskii gorisont. Alma-ata, Izd-vo AM KasSSR, 1953. 226 p. (Kazakhstan-Trilobites)

BUBLICHERKO, N.L., doktor geologo-mineralogiches kikh nauk.

M.A.Rshonenitekaia's work "Spiriferids of Devonian deposits on the margin of the Ensmetek Basin." Vest.AN Essakh SSN 11 no.10: 120-121 0 '54. (Rshoneniteknia, M.A.) (Ensmetek Basin-Brachiopods, Fossil)

15-1957-3-2605
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3, p 6 (USSR)

AUTHORS: Bublichenko, N. L., Nikitina, L. G.

TITLE: The Tarkhanskiy Section (Southwestern Altay) [Tarkhanskiy razres (Yugo-Zapadnyy Altay)]

PERIODICAL: Tr. Altaysk. gorno-metallurg. n.-i. in-ta AN KazSSR, 1955, Vol 2, pp 5-25

ABSTRACT: The Devonian and Carboniferous section of the Emsingorsko-Tarkhanskiy belt of southwestern Alay is described in detail (see Table). According to the author, the fossils in the Tarkhanskaya svita (series) are carboniferous, although Devonian forms are also present. The following Carboniferous forms are found in the lower part of the Tarkhanskaya series: Linoproductus aff. ovatus Hall. Pilcatifera orthomatis ep. no. Productus minar subgen and sp. no, and others. The Devonian Ignus presenter Cartoppirifer larged Hall and Tricturing Emiscortalis Hall. The upper boundary of the Tarkhanskaya series is determined by the disappearance of Optionpirifer kureki and the appearance of Spiriteric tormscensis Kon-

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The Tarkhanskiy Section (Southwestern Altay) (Cont.)

15-1957-3-2605

The boundary between the Bukhtarminskaya and Ul'binskaya series is based on the abundant appearance of bryonoms in the Buhtharminskaya series and the disappearance of other organisms. The Maloullylinskaya series foorrelated with the Maurowskaya series of the Kuzbas (Kuzbas (Kuzbas Santetts Bein) on the basis of plant remains. The Middle Devonian rocks of the Tarkhanskaya and Maloul'binskaya series are characterized by their transgressive relationships.

	Jim pu s	100
	Namurian stage	Maloul'binskaya series. Continental sediments, consisting of siltstones with Angaropteridium cardiopteroides; up to 1000 m thick.
,	Visean stage	Ul'binskeys series. Siltstones and limestones with bryozoans <u>Folypors sibirica</u> , brachtopods <u>Froductus</u> ex. gr. <u>pinguis</u> and others; 300-400 m thick.

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The Tarkhanskiy Section (Southwestern Altay) (Cont.)

Bukhtarminskaya series. Limestones with Spirifer tornacensia and others; about 100 m thick. Tarkhamskaya subseries. Retoporinal beds, siltstones with Retoporina altatea and others, brachioped layers, siltstones with Spirifer iulii and others; 580 m thick. Subseries of detrital shales. Yellowish-green siltstones 280 m thick. Subseries of sandstones. Interbedded coarse-grained sandstones and shales; remains of Linoproductus aff. ovatus, Cyrtospirifer kureft, and others; 28-29 m thick. Subseries of basal conglomerates. Pebbles formed from underlying volcanic rocks; up to 59 m thick.		
	STAGE	sis and others; about 100 m thick. Tarkhamikays subseries. Retoporinal beds, siltstones with Retoporina altaica and others, brachloped layers, siltstones with Spirifer iulii and others; 580 m thick. Subseries of detrital shales. Yellowish-green siltstones 280 m thick. Subseries of sandstones. Interbedded coarse-grained sandstones and shales; remains of Linoproductus aff. Ovatus, Cyrtospirifer kureki, and others; 28-29 m thick.

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15-1957-3-2605

The Tarkhanskiy Section (Southwestern Altay) (Cont.)	
	Series of basic and intermediate volcanics. Augite porphyrites and their tuffs; 700 m thick.
Upper Devonian	Series of acid volcanics with Nikolayevskiyebeds at the base. Quartz keratophyres and their tuffs; limestones at the base with goniatites; 1200-1800 m thick.
Middle Devonian	Series of acid volcanics with Losishenskiyebeds in the lower part and conglomerates at the base; 1300-2000 m thick.
Lower Silurian (?)	Metamorphic greenstones
1	

Card 4/4

BUBLICHEMEO, N. L., doktor geologomineralogicheskikh nauk

Conference on problems of stratigraphy and geochronological
classification. Vest.AH Kanakh.SSR 11 no.7:79-82 J155.

(Geology, Stratigraphic) (NIRA 8:10)

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Discovery of Calceola sandalina Lamark in the Rudnyy Altei. Biul.
MOIP. Otd.geol.30 no.4:75-77 Jl-Ag'55. (MIRA 8:12)
(Altai Mountains--Corals, Fossil)

BUBLICHENKO, N.L.

Upper time limit of polymetallic mineralization in the Rudnyy Altai. Vest.AW Mazakh. SSR 12 no.10:101-103 0 '56. (MLRA 9:12) (Altai Mountains--Mineralogy)

BUBLICHENKO, N.L.

Some new representatives of Brachiopoda of the Devonian and Carboniferous from the Radayy, Isv. AN Lasakh.SSR.Ser.geol. (RIBA 10:1) (Altai Mountains--Brachiopoda, Fossil) (Kasakhstan--Brachiopoda, Fossil)

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Trudy Alt. OMNIT AN Kasakh, SER 4:38-51 '57. (MIRA ll:1)
(Altai Territory—Geology, Stratigraphic)

BUBLICHMINO, N.L.

"Strishkovskie" strata (Givetian stage in Rudnyy Altai). Trudy Alt.
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(Altai Mountains-Geology, Stratigraphic)

BUBLICHENKO, N.L.

BORUKATEV, R.A., aked.; BORSUK, B.I.; KELLER, B.M.; ATTALITEV, Zh.A.; BOGDANOY, A.A.; BURGICHENKO, M.L.; BYKOVA, M.S.; GALITSKIT, V.V.; MEDOTEV, G.Ta.; WHARKOV, V.M.; ORLOV, I.V., BURGATISHIKOVA, T.B.; SHLYGIE, Te.D.; HIKITIN, I.F., uchenyy sekretar'; SENKEVICH, M.A., uchenyy sekretar'.

[Resolutions of the Conference on the Unification of Stratigraphic Charts of the Pre-Peleozoic and Paleozoic of Eastern Kazakhatan]
Resolutatia po unifikateli stratigraficheskith shhen dopaleozoia i paleozoia vostochnogo Kazakhatana. Alma-Ata, Izd-vo Akad. nauk
Kazakhakoi SSR, 1958. 36 p. (MIRA 11:12)

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BORUKAYEV, R.A. --- (continued) Card 2.

Lomonosova (for Bogdanov). 7. Altayakty gorno-metallurgicheskiy nauchno-issledovatel'skiy institut Akademii nauk Kazakhskoy SSR (for Bublichenko). 8. Institut geologicheskikh nauk Akademii nauk Kazakhskoy SSR (for Bykova, Galitakiy, Medoyev, Shlygin, Hittin). 9. Tesntrullon-Kazakhtsanskoy geologicheskoye upravleniye (for Orlov). 10. Ydshno-Kazakhtsanskoye geologicheskoye upravleniye (for Mukavishnikova, Senkevich). (Kazakhtsan-Geology, Stratigraphic)

RADCHENKO, Margarita losifovne; NALIVKIN, D.V., akodenik, glavnyy red.; BUBLICHERKO, M.L., doktor geol.-mineral.nsuk, otv.red.; HITURG, W.F., doktor geol.-mineral.nsuk, red.; VLASOVA, S.M., red.ind-vs; UNISCHERIA, K.V., tekhn.red.

[Paleontological basis of the Paleonoic stratiography of the Mudnyr Altai] Paleontologicalcheakoe obosnovanie stratigrafii paleosoia Budnogo Altais. Nockva, Ges.nuchmo-tekhn.izd-wo lit-ry po geol. i okhrene nedr. No.8. [Plant remains of the Garboniforous of the Mudnyr Altail Restitelinye ostatki korbona Budnogo Altais. 1958. 54 p. (MIRA 12:4) (MIRA 12:4)

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Trudy Alt. GRHII AH Essakh, SSR 6:3-39 '58. (MIRA 12:1)
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International conforence on the Silurian-Devonian stratigraphy.

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BISCHROY, A.B.; BOGATTREY, A.S.; BOK, I.I.; BORKAYEV, B.A.; BULLOH-ONKO,
N.L.; BYKOYA, M.S.; ZHILINSKIY, O.R.; ZTROV, D.A.; IVANKIN, P.F.;
KAZAHLI, D.M.; KAYUHOV, A.K.; KENSENTY, S.K.; KOLOTLIN, N.F.;
KURAYEV, D.A.; KUSHEY, G.L.; L.Y.; A.Y.; HASHAROV, O.Zh.; KEDOY, F.
KURAYEV, D.A.; KUSHEY, G.L.; L.Y.; A.Y.; HASHAROV, O.Zh.; KEDOY, F.
PARSHIM, A.V.; POFROYSKIY, S.M.; POLOSUKHIM, A.F.; RUSAKOV, M.P.;
SENGITEV, M.O.; SETYHLININ, S.Sh.; TAZHIBATZV, P.T.; ZESSENOV, V.G.;
SHINGUIN, YO.; SHCHERBA, G.N.; CHOKIK, S.Ch.; CHOLFARKULOV, Z.G.,

Sixtieth hirthday of Academician Kanysh Imantaevich Satpaev. Vent. AN Kazakh. SSR 15 no.4:55-61 Ap '59. (MIRA 12:7) (Satpaev, Kanysh Imantaevich, 1899-)

BORUKAYEV, R.A., akademik, otv.red.; ATTALIYEV, Zh.A., red.; BUELICHEMKO. H.L., red.; BYKOVA, M.S., red.; GALITSKIY, V.V., red.; IVSHIN, H.K., red.; MEDOTEV, G.TS., red.; MIKITIN, I.F., red.; RUKAVISHNI-KOVA, T.B., red.; SEMENUCH, M.A., red.; SHLYGIN, Ye.D., red.; SEMENUV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Transactions of the conference on the unification of stratigraphic diagrams of the Pre-Paleczoic and Paleozoic in eastern Kazakhstan, Alma-Ata, May 12-17, 1958.] Trudy Soveshchaniya po unifikatsii stratigraficheskikh skhem dopaleozova i paleozova Vostochnogo Kazakhstana. Alma-Ata. Izd-vo Akad.nauk Kazakhakoi SSR. Vol.1. [Pre-Paleozoic, Cambrian, Ordovician, Silurian] Dopaleozoi, kembrii, ordovik, silur. 1960. 296 p.

1. Soveshchaniye po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya Vostochnogo Kasakhstana. Alma-Ata, 1958. 2. Predsedatel' Orgkomiteta stratigraficheskogo soveshchaniya; AN KazSSR; Institut geologicheskikh nauk AN KazSSR (for Borukayev). 3. Institut geologicheskikh nauk AN KasSSR (for Nikitin). 4. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye (for Rukavishnikova).

(Kazakhetan-Geology, Stratigraphic)

BORIKATEV, R.A., otv.red.; ATTALLEN, Zh.A., red.; EMELICHENKO, N.L., red.;
BYKOVA, N.S., red.; GALITSKIY, V.V., red.; EMECYEV, G.TS., red.;
NHETTH, I.F., red.; EMERYISHHIKOVA, T.B., red.; SENENTICH, M.A.,
red.; SENIGHN, Ye.D., red.; SENENOV, M.N., red.; PROKHOROV, V.P.,
takhn. red.

[Trensactions of the Conference on the Unification of Stratigraphic Scales of the Pre-Peleonoic and Peleonoic in Eastern Essakhatan. Alma-Ats, 1958] Trudy Soveshchania po unificated is tratigraficheskith skimm dopaleonoic i peleonois Vostochnogo Essakhatana. Alma-Ats, Ind-vo Akud, nauk Karakhakoi SSR. Vol.2. [Devonian, Cerboniferous, Permian] Devon, karbon, perm. 1950. 253 p. (MRA 13:8)

1. Soveahchaniye po unifikatsii stratigrafichaskikh shkem dopalcencis i palcencia Vestochnogo Karakhstena. Alma-Kts. 1958. 2. Altsyskiy gornometallurgichaskiy nauchno-isaledovateliskiy institut MK KasSSR (for Bublichenko). 3. Institut geologichaskikh nauk AN KasSSR (for Bykova). 4. Yuzhno-Karakhstenskoye geologichaskoye upravleniye (for Senkevich).

(Kasakhatan-Geology, Stratigraphio)

MAKSIMOVA, Xlata Aleksandrovna; MALIVKIN, D.V., akademik, glavnyy rod.;

BUBLICENSKO, N.L., doktor geol.-mineral.nauk, otv.red.; ARLASHOVA.

Yo.A., kand.geol.-mineral.nauk, red.; ABKEVICH, P.L., red.izd-va;
IVAHOVA, A.G., tekhn.red.

[Paleontological basis of Paleonoic stratigraphy in the Rudnyy Altai]
Paleontologicheskos obosnovanie stratigrafii paleonoia Rudnogo Altaia. Moskva, Gos.nauchno-tekhn.ida-vo lit-ry po gool. i ohkrans
nodr. No.7. [Devonian and Carboniferous trilobites of the Rudnyy Altai] Devonskie i kasennougol'nye trilobity Rudnogo
Altaia. 1960.

(MIRA 13:12)

1. Akademiya nauk Kasakhakoy SSR, Alma-Ata. Altayakiy gorno-matallurgichakiy nauchno-iasladovatel akiy institut. (Altai Mountains--Frilobitas)

BUBLICHENED, N.L., HOGOTSKAYA, L.W., FATKULIH, R.M.

Considering problems of geotectonic and the organic world, Vest.AH Kasakh,SSR 16 no.4:81 Ap *60. (MEMA 13:7) (Geology, Structural) (Biology)

SPASSKY, Nikolay Yaroslavovich; NALIVKIN, D.V., akademik, glav. red.;

<u>BUELIGHENKO</u>, N.L., doktor geologo-mineral. sauk, otv. red.;

<u>BULVANKER</u>, E.Z., kand. geologo-mineral. nauk, red.; ABKEVICH,

F.L., red. izd-vas IVANUVA, A.G., tekhm. red.

[Paleontological basis of the Paleosoic stratigraphy in the Rudnyy Altai] Paleontologicheskoe obosnovanie stratigrafii paleozoia Rudnogo Altaia. Hoskva, Gos. nauchno-takhn. isd-paleozoia Rudnogo Altaia. Hoskva, Gos. nauchno-takhn. isd-paleozoia Rudnogo Altaiy) Devonakie chetrekhluchevye korally Rudnogo in the Rudnyy Altay] Devonakie chetrekhluchevye korally Rudnogo Altaia. 1960. 142 p. (Altai Hountains—Rugosa)

BUBLICHENKO, N.L.

Stratigraphic control in metallogenic processes in the Audmyy Altai.
Trudy Alt. GRNII AN Kazakh. SSR 10:196-208 '61. (MIRA 14:9)
(Altai Mountains-Geology, Stratigraphic)

BUBLICHENKO, N.L.

Couvinian stage and some remarks about the Lower Devonian in general. Biul. MOIP @td. geol. 36 no.1:76-88 Ja-F '61. (MIRA 14:5)

(Geology, Stratigraphie)

DURATOV, Viktor Nikolayevich; BUBLICHENKO, N.L., red:; -SOKOLOV, B.S., red.; IONINA, I.N., red., izd-va; VINOGRADOVA, N.F., tekhm. red.

> [Tabulata and Heliolitidae in the Silurian and Devonian sediments of the Rudnyy Altai Tabuliaty i geliolitidy si-luriiskikh i devonskikh otlozhenii Rudnogo Altaia. Moskva, Akad.nauk SSSR, 1962. 109 p. 29 plates.

1. Chlen-korrespondent Akademii nauk Kazakhskoy SSR (for Bublichenko). 2. Chlen-korrespondent Akademii nauk SSSR (for Sokolov).

(Altai Mountains-Corals, Fossil)

BUBLICHENKO, N.L.

Methods for stratigraphic studies of the Rudnyy Altai. Trudy
Alt.GMMII AN Kazakh,SSR 12:3-21 162.
(Altai Mountains—Geology, Stratigraphic—Research)

BUBLICHENKO, N.L.; KOZHEMYAKO, M.N.

Tectofacies of flyschoids and their genesis in the southwestern Altai. Dokl. AN SSSR 152 no.4:931-933 0 '63. (MIRA 16:11)

l. Gornometallurgicheskiy nauchno-issledovatel skiy instutut AN Ka_2SSR. Predstavleno akademikom D.V. Nalivkinym.

BUBLICHENKO, N.L.; KOZHEMYAKO, M.N.

Facies and "flyschoids" in the southwestern Altai. Trudy Alt.
GMNII AN Kazakh. SSR 16:3-14 '63. (MIRA 17:10)

PAULLER, O.F.; ASTRAKHANTSEVA, A.M.; BUBLIENKO, V.A.

Gase of cat fleas attacking people in uninhabited rooms. Dokl. Irk. gos. nauch.-issl. protivochum. inst. no.5s177-179 '63 (MIRA 18:1)

BÜBLIK, Andray Iwanovich [Bublyk, A.I.], kond.tekhn.nauk; OBOLENSKIY, Yu.A.,
[Übolens'kyi, IU.A.], dotsent, red.; TUBOLEVA, M.V. [Pubolieva, M.V.],
red.

[Water supply for stock forms] Vodopostachania tvarynnyts'kykh form. Kylv, 1958, 39 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh snen' Ukrains'koi ESE. Ser.3, no.22) (NIEA 12:2) (Water supply, hural)

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Filter of porous concrete for dug wells. Mekh. sil'. hosp. 9
no.2:15-16 7 '55. (MIRA 11:3)
(Filters and filtration)
(Wells)
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pp 350-354

"Iz Ak Nauk SSSR, Ser Fiz" Vol 16, No 3,

BUBLIK, A. I.

monochromatic x-ray sources, held at Khar'kov Report heard at the conference on powerful this report. Subject operation is important 24-26 Jan 52. for investigating those processes of structural nection tubes with higher power or rotating variations that occur in time. In this conappearance of subject sharp-focus tubes (which or oscillating anodes were employed before V. V. Avgust participated in

232TIO4

"Employment of the Sharp-Focus Tabe for Opera-tion in Impulse Regime," A. I. Bublik and B. Ya-tion in Impulse Regime, "A. I. Bublik and B. Ya-Pines; Knar'kov State U imeni A. M. Gor'kky USSR/Physics - Monochromatic X-ray Sources

May/Jun 52

increase of power). Now even better is subject permit shortening the time of exposure without

impulse (rapid) x-ray tube.

APPROVED FOR RELEASE: 06/09/2000

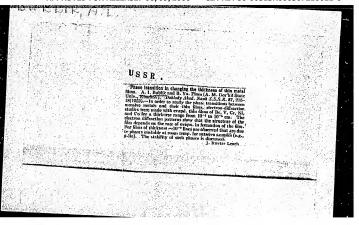
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May/Jun 52



BU LIK, A. I., GISTARTO,, . 182., 3. Ya.

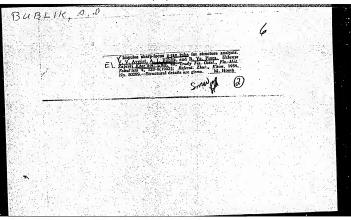
"X-Ray Tube With Particularly Long and Sharp Linear Focusing" ton Zap, sharker touturing bong and Sharp Linear Focusing" ton Zap, sharker bonds, 43, Tr. riz. Old. Fiz. Mat tak., 4, 1953, pp 12-135

An X-ray tube with a focal spot 22 mm long and 0.3 mm wire is described Electrostatic focusing of the electron beam formerly used for tuces with a focal point (cf. v. o. exversion and B Yo. Fines, Zh. Tekh. risiki, 17, (1947) was april ad. tests with crystals prived that the tuce may sirve as powerful numeeromatic source for analysis of sestioning of fluids and for radiograms of microcrystalline objects. (montiz, No 2, 19:5)

SO: Sum. 4.2, 12 May 55

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307210011-6"



BUBLIK, A.I.

Monequilibrium states in thin films of metale and allays.

Fill. Electrongraphic study of this could fill the property of the could fill the co

with a likelanes of >6 \times 10^{-10} cm, the same crystal arisings in a distance as with massive samples. With disclement of 4.46×10^{-10} cm, somether statute in observed, with Ni it describes the same of 4.46×10^{-10} cm, somether statute in observed, with Ni it describes the same of the same

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307210011-6"

BUBLIK, A.I. and Pikad, B.Ya.

"The Unbalanced State in Thin Films of Metals and Alloys, Fig.

8"The Structure of Nickel and Chrome in Thin Layers,"

"The Thermodynamic Conditions of Phase Stability in Thin Films,"
Uch. zap. KhGU. /Scientific notes of Khar kov State University / v. 48,
Tr. Fiz. otd. /Works of the Physics Dept./ No. 4, Kh. State Univ.
publication, /953

Bublik, A.I.
USSR/Physics - Electronograph

FD-1019

Card 1/1 : Pub. 153 - 23/24

Author : Pines, B. Y

: Pines, B. Ya., and Bublik, A. I.

Title : High-temperature electronographs

Periodical : Zhur. tekh. fiz., 24, 1139-1145, Jun 1954

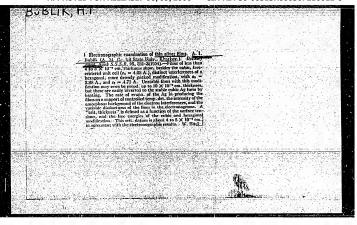
Abstract : Describes a high-temperature electronograph of simple design (without magnetic lenses) for obtaining electronograms of specimes found at magnetic lenses)

high-temperatures, in the form of thin plates and in the form of massive slides: The thin plates are of finely crystalline aluminum and other substances, practically single-crystalls. Five references, all

USSR (Z. G. Pinsker, B. K. Vaynshteyn, V. D. Bezverkhiy).

Institution : -

Submitted : July 19, 1954



BUBLIK, A.I.

"Electron Diffraction Study of Fine Silver Films," DAN SSSR, V. 96, No 3, AN (Academy of Sciences) USSR publication, M. - L. 195%

BURLIN, A.I.

PIMES, Boris Takovlevich, professor: BUBLIL, A.I., dotsent, kandidat fisiko-metematicheskith nauk, otvetstvenky redaktor: TRESTAKOTA, A.M., redaktor isdatel'stva: TROFIMBECO, A.S., tekbnicheskiy redaktor

> [Lectures on structural analysis] Lektsii po strukturnosu analisu. Igd. 2-ce, parer. Khar'kov, Igd-vo Khar'kovskogo gos.univ. im. A.M.Gor'kogo, 1957. 454 p. (MIRA 10:9) (Grystallography)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

BUBLIK, A I

AUTHOR: Bublik, A.I.

70-2-7/24

TITLE: Electronographic investigation of the structure of thin liquid layers of tin. (Elektronograficheskoye issledovaniye stroyeniya tonkikh zhidkikh plenok olova)

PERIODICAL: "Kristallografiya" (Crystallography), 1957, Vol.2, No.2, pp. 249-254 (U.S.S.R.)

ABSTRACT: Electronograms were obtained from liquid Leyers of Sn about 2-3 x 10° cm thick. The specimens were heated and the changes in diffraction pattern recorded. On approaching the m.p. the further outlines became broad and diffuse and then vanished altogether and at the m.p. itself there remained only a few broad low-angle rings. The latter coincided with the mean positions of groups of sharp lines in the powder photograph at room temperature. The radial distribution curve was a clulated from the jintendity data using the formula $4\pi R^2 (R) = 4\pi R^2 e_0 + \frac{2R}{\pi} s J_n(s) \sin sRds$ normally used for

X-ray work. Here $\ell(R)$ is the atomic density function, Card $1/3 \, \ell_0$ the average density, $J_n(s) = J(s)/N f^2 - 1,$

APPROVED FOR RELEASE: 06/09/2000

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T0-2-7/24
Electronographic investigation of the structure of thin liquid layers of tin. (Cont.)

$$s = \frac{44\sin\theta}{\lambda},$$

$$f^2 = \frac{(z - f_p^2)}{s^4}$$

 ${\bf Z}$ being the atomic number and ${\bf f}_{\bf p}$ the X-ray atomic scattering amplitude. J(s) represents the intensity of the coherent scattering, to obtain which the incoherent scattering has to be substracted from the observed intensity. The incoherent scattering is estimated from the very high angle scattering from the liquid and from the background between sharp lines from the

The resulting calculation gives the average surroundings of a Sn atom to be the following (compared with N.S. Gingrich, Usp. Khimiim 15, 297, 1946 - values bracketted).

Card 2/2

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

Electronographic investigation of the structure of thin liquid layers of tin. (Cont.) memp. Oc First Co-and

.cmp.	٠.	sphere.		Second		Third	
		R A	Number	R	Number	R	Number
20		3.05 3.17	4 2	3.78	4	4.42	8
235 300 (250 (390		3.4 3.6 3.38 3.36	7 11.5 10) 8.9)	3•95	6	4.91 4.75	8

These results are interpreted to mean that at the melting point the structure of Sn remains close to that of solid white Sn and with further heating the atoms tend to close packing (which is reached at about 300 C) and at higher temperatures the density of packing decreases. Acknowledgments to Prof. B. Za. Pines. Card 33 There are 6 references, of which 5 are Slavic, 5 figures and

ASSOCIATION: Kharkov State University im A.M. Gorkogo. (Kherkovskiy Gosudarstvennyy Universitet im A.M. Gorkogo)

AVAIIA BLE:

June 30, 1956. Library of Congress

. GUBLIY, A.I

AUTHOR: Bublik, A.I. and Buntar', A.G.

70-2-8/24

TITIE: The determination of the atomic radial distribution function in a liquid metal alloy from electronogram data. (Opredelmive funktsii radialnogo raspredeleniya atomov v zhidkom metallicheskom splave po dannym elektronogramm)

PERIODICAL: "Kristallografiya" (Crystallography), 1957, Vol.2, No.2, pp. 255-259 (U.S.S.R.)

ABSTRACT: The theory of a method for deriving the radial density distribution function from electron diffraction data is developed for the case where several kinds of atoms are present in a liquid alloy. The equation appropriate for X-ray scattering: $4\pi R^2 \mathbf{v}(\mathbf{R}) = 4\pi R^2 \mathbf{v}_0 + \frac{2\pi}{\pi} \mathbf{v}_0 \mathbf{v}_$

is modified to average over the different kinds of atoms to give:

Card 1/2

where $k_{alloy} = C_a k_a + \dots + C_n k_n$, $e_{alloy}(r) = e_a(r) + \dots + e_n(r)$,

The determination of the atomic radial distribution function in a liquid metal alloy from electronogram data. (Cont.) \boldsymbol{C}_m = atomic concentration in the alloy, $\,N$ = total number of scattering atoms, $k_m = F_m/f_e$ the effective number of scattering electrons in an atom of m, $f^2 = (Z-F)^2/s^2$, $s = 4\pi \sin \theta/\lambda$, $i(s) = [I'(s) - \{F_{-}^{2}\}]$

The above formula was applied to data obtained photometrically from electronograms taken of a layer of 60% A1, 40% Sn 3 x 10 cm thick at 520 c. The layer was produced by vacuum evaporation. The density curve showed three maxima corresponding to Al-Al distances of 2.70 A (10.0 neighbours), distances of 3.540 Å (6.2 neighbours) and Al-Sn + Sn-Al distances of 3.554 with 1.0 and 1.5 to 1.6 neighbours,

Card 2/2 respectively. There are 9 references, 8 of which are Shwic, 1 figure and 1 table.

ASSOCIATION: Kharkov State University im. A.M. Gorkogo (Kharkovskiy Gosudarstvennyy Universitet im. A.M. Gorkogo) SUBMITTED:

October 3, 1956. Library of Congress. AVAILABLE:

BUBUKAI

AUTHORS: Bublik, A. I. and Buntar', A. G. 126-1-8/40

TITLE: Determination of the density of the distribution of atoms in liquid aluminium and bismuth at various temperatures from data of electron diffraction patterns. (Opredeleniye plotnosti raspredeleniya atomov v zhidkikh Al i Bi pri razlichnykh temperaturakh po dannym elektronogramm).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vo 5, No.1, PP. 53-57 (USSR)

ABSTRACT: In an earlier paper (Ref.1) data are given on the study of the structure of liquid tin by means of electron diffraction patterns at two temperatures, namely, at the melting point temperature and at 300°C. On the basis of analysis of the curves of the density of atom distribution, it is shown that the structure of liquid tin changes with increasing temperature. At the melting point temperature, the distribution of the atoms is basically the same as in crystalline tin; with increasing temperature the liquid tin aims to attain a dense packing. The authors considered it of interest to verify this characteristic also on other metals and in this paper the results are given of electron diffraction investigation of the Card 1/3 structure of liquid aluminium which, in the solid state,

126-1-8/40 Determination of the density of the distribution of atoms in liquid aluminium and bismuth at various temperatures from data of electron diffraction patterns.

> has a densely packed lattice and of Bi which has a rhombohedric lattice approaching the simple cubic lattice. The preparation of the specimens, the taking of the electron diffraction exposures and the calculations were carried out in the same way as in the earlier work. Electron diffraction exposures were made for aluminium films of the thicknesses 2·10-0 to 3·10-0 cm at the temperatures 670, 720 and 850 c and for Bi films of sequal thicknesses at 280, 300 and 400 c; the 1(s) curves for various temperatures are entered in the graphs Figs. 1 and 2 and the positions of the maxima of these curves are entered in Table 1, p.54. The radial distribution density of the atoms is graphed in Fig. 3 for aluminium (for 670, 720 and 850 °C) and in Fig. 4 for bismuth (for 200, 300 and 400°C). The number of near neighbours at various temperatures were determined for liquid aluminium and bismuth. It was found that at the melting point temperature the short range order is fundamentally the same as in crystalline aluminium and

with increasing temperature the density of the particles Card 2/3 decreases; the short range order in bismuth at a

126-1-8/40

Determination of the density of the distribution of atoms in liquid aluminium and bismuth at various temperatures from data of electron diffraction patterns.

temperature approaching the crystallisation temperature is also similar to the order of distribution of the particles in solid bismuth, whilst with increasing temperature (up to 300°C), the bismuth tends to become more densely packed in the same way as was observed in earlier work for tin; in the case of considerable overheating, the density of the atom distribution in aluminium as well as in bismuth approaches the average density. Acknowledgment is made to Professor B. Ya. Pines for his advice during the execution of the work. There are 4 figures, 2 tables and 6 references, three of which are Slavic.

SUBMITTED: July 16, 1956.

ASSOCIATION: Khar'kov State University. (Khar'kovskiy Gosudarst-Vennyy Universitet).

AVAILABLE: Library of Congress.

Card 3/3 ...

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

AUTHORS: Bublik, A.I. and Buntar', A.G. SOV/70-3-1-6/26

Electron Diffraction Study of the Structure of Liquid TITIR. Metals and Alloys (Elektronograficheskoye issledovaniye

stroyeniya zhidkikh metallov i splavov)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 1, pp 32 - 42 (USSR)

ABSTRACT: This is an abridged version of a paper read at the first All-Union conference on electron diffraction in January, 1957. Some years ago in the laboratory of the department of solid-state physics of the Khar kovskiy gosudarstvennyy universitet (Khar'kov State University) a method was developed for electron diffraction studies of liquids (Refs 6, 7) and systematic work was begun on the structure of liquid metals and alloys. Up to that time, electron diffraction technique was almost never used in structural analysis of liquids. There are only two papers (Ref 8)

in which electronograms are reported for a few liquid metals and alloys. In the method now described the structure of liquid metals and alloys was studied, using electronograms obtained with "free" liquid films with a thickness of between 10-5 and 10-6 cm. The method of

preparation of polycrystalline unbacked films was described Cardl/4

SOV/70-3-1-6/26 Alloys

earlier (Ref 9). Such films are obtained by evaporation onto a glass or mica plate in such a way that first a soluble (in water) film of some material is deposited and then the metal itself. When such a plate is placed in a solvent the metallic film can easily be separated from the backing and floats freely on the surface of the solvent. Such a film can then be easily removed and placed in a special holder for use in a high-temperature electronograph. The electronograph in the above department is very simple(Ref 6). Its main advantage is that structural studies can be carried out at high temperatures. However, in high-temperature work very careful preparation of specimens is necessary and it must be ensured that the heating device does not out-gas. Figure 1 shows a device which acts both as a heater and specimen holder. The device is in the form of a tantalum plate with an aperture in the middle upon which the specimen is placed. The tantalum ribbon is fixed in a holder whose ends are insulated from the body. In Figure 1 (7) is the tantalum ribbon on which the specimen is placed. By passing a current through the tantalum ribbon the specimen can be

Card2/4

Electron Diffraction Study of the Structure of Liquid Metals and Alloys

Card3/4

heated to any temperature and changes in its structure can be followed either on a screen or by photographic means. Integral analysis of intensity curves was used to determine the degree of short-distance order. This method was described by the present authors in Refs 7 and 11 for liquid metals and Refs 12 and 13 in the case of alloys. To calculate the radial distribution in monatomic liquids, Formula (1) was used. To determine the corresponding function in the case of liquid alloys Eq (5) was used. Figures 2-6 show the radial distributions at various temprange covered is 235 - 850 °C. The following conclusions can be drawn from these results: 1) liquid metals (independently of the type of the crystal lattice) have the same short-distance order as the crystalline state at the melting point; 2) in the case of metals with dense packing, the co-ordination number decreases with increasing temperature and in the case of "loose" packing this number increases; 3) at high temperatures the distribution density in all liquid metals tends to a smooth curve.

SOV/70-3-1-6/26

Electron Diffraction Study of the Structure of Liquid Metals and Alloys

The following alloys were investigated: Bi-Sn, Al-Sn, and Al-In. The radial distribution curves for these alloys at various temperatures and compositions are given by Figures 9-14. Results obtained for these alloys show that thin films of liquid alloys (of any concentration) consist, at temperatures close to the crystallisation point, of regions enriched with one of the components. The character of the packing in these "uniform" regions is very similar to the packing in the corresponding pure liquid metals. There are 14 figures, 5 tables and 18 references, 3 of which are German, 1 English and 14 Soviet.

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo (Khar'kov State University imeni A.M. Gor'kiv)

SUBMITTED: February 26, 1957

Card 4/4

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

AUTHOR: Bublik. SOV/126-6-4-18/34

Buntar', A.G.

TITIE:

Electron-Diffraction Study of the Structure of Liquid Alloys in the Al-Sn System (Elektronograficheskoye

issledovaniye stroyeniya zhidkikh splavov sistemy Al-Sn) PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 4, pp 692-699 (USSR) ABSTRACT:

In contrast to liquid metals, the structure of molten metal alloys has not been studied in great detail. One metal alloys has not been studied in great detail. One of the first papers on this subject was written by Danilov and Radchenko(Ref.1), followed later by the work of Skrishevskiy (Ref.2). The present authors suggested (Refs.3-5) that electron diffraction was a useful technique in the study of the structure of liquid metal alloys. A method of calculation on the radial distribution of the density of atoms in a liquid alloy from electron diffraction intensities was given in Ref.5. The present paper gives the results of electron-diffraction study of the structure of liquid

Al-Sn alloys of the following compositions: 80% Al, Card 1/4 20% Sn; 60% Al, 40% Sn; 40% Al, 60% Sn; 20% Al, 80% Sn;

SOV/126-6-4-18/34

Electron-Diffraction Study of the Structure of Liquid Alloys in

(all in atomic %). Each alloy was studied at several temperatures ranging from the neighbourhood of its melting point to about 150°C above it. The alloys were in the form of thin films (5 x 10°C cm) prepared by evaporation and condensation in vacuo. The composition of an alloy was determined by weighing. The samples were melted and electron-diffraction patterns were obtained in the high-temperature apparatus described by Pines and Bublik (Ref.7). From the diffraction patterns rines and modify (mel./). From the diffraction passering intensity curves were constructed, e.g. Fig.1 which gives the intensities for the alloy with 80% at at 600% (curve 1), 700°C (curve 2), 750°C (curve 3). Positions of the maxima on the intensity curves of all the alloys children given in Table 1. studied are given in Table 1. From the intensity curves the distributions of atoms in the four alloys were derived (Figs.2-5). The authors make the following deductions from the data of Figs. 2-5. At temperatures just above the melting point, liquid Al-Sn alloys possess regions consisting mainly of atoms of one kind (e.g.Al);

Card 2/4

SOV/126-6-4-18/34

Electron-Diffraction Study of the Structure of Liquid Alloys in the Al-Sn System

this agrees well with the X-ray diffraction studies of liquid alloys reported by Danilov, Radchenko and Skrishevskiy (hefs. 1-2). Coordination numbers calculated for all the four alloys (Table 2, Fig.6-7) show that the packing in the regions consisting of atoms of one kind is similar to the packing in the corresponding pure metals. With increase of distribution of the two components becomes more uniform. It is pointed out that the studies reported in the present paper were made on films 5×10^{-6} cm thick and, therefore, the results obtained may not apply to liquid Professor B.Ya.Pines* for his advice.

Professor B.Ya.Pinest for his advice. There are Card 3/4

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

SOV/126-6-4-18/34

Electron-Diffraction Study of the Structure of Liquid Alloys

8 are Soviet and 1 German.

ASSOCIATION: Kharkovskiy Gosudarstvennyy Universitet imeni A.M.Gor'kogo (Khar'kov State University imeni A.M.Gor'kiy)

SUBMITTED: 8th February 1957.

Card 4/4

18.1290

66982 SOV/81-59-13-45213

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 13, p 71 (USSR)

AUTHORS: Bublik, A.I., Buntar', A.G., Gayevaya, N.P.

The Investigation of the Structure of Liquid Alloys of the Bi-Sn System by the Electronographic Method

by the Electronographic Method

TITLE:

PERIODICAL: Uch. zap. Khar'kovsk. un-t, 1958, Vol 98, Tr. Fiz. otd. fiz.-matem. fak.,
Vol 7, pp 251 - 256

Vol 7, pp 251 - 256

ABSTRACT: The scattering of electrons by liquid Bi-Sn alloys has been investigated

(for alloys with 20, 50, and 80 atomic \$\frac{\text{Min}}{2}\$ is a temperatures close to the crystallization point, and for the alloy with 50\$\frac{\text{Min}}{2}\$ is also at \$270^{\text{C}}\$. The samples were prepared in the form on "free" films (2-3): 10^{\text{C}}\$ or thick by evaporation and condensation in vacuum. The scattering intensity curves of all alloys, a little overheated above the melting point, agree well with the calculated ones obtained from the intensity curves for pure components by the law of additivity. In the case of overheating by several dozens of degrees above the liquidus there is no such agreement. Based on the intensity curves of scattering the curves of the method of the intensity curves of scattering the curves of the method of the intensity curves of scattering the curves of the method of the intensity curves of scattering the curves of the method of the intensity curves of scattering the curves of the method of the intensity curves of scattering the curves of the method of the intensity curves of scattering the curves of the method of the scattering the curves of the method of the intensity curves of scattering the curves of the method of the scattering the curves of the scattering the curves of the method of the scattering the curves of the method of the scattering the curves of the scattering the curves of the method of the scattering the curves of the scattering the c

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The Investigation of the Structure of Liquid Alloys of the Bi-Sn System by the Electronographic Method

neighbors and the coordination number have been determined approximately. The conclusion is drawn that liquid films of Bi-Sn alloys of any concentration at the melting point consist of regions, in which mainly atoms of one type are found. At overheating by several dozens of degrees this microstratification disappears,

D. Belashchenko

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BUBLIK, Andrey Ivanovich [Bublyk, A.I.]; KHASNITSKIY, Midhall
Sergeyevich [Krasnyte kyi, M.S.]; BOROVSKIY, Eduard
Rudol'fovich [Borove'Nyi, B.R.]; KINANHERNKO, N.S.
[Kyiamichenko, N.S.], red.; LEUSHCHENKO, N.L., tekhn.

[Use of glass pipes in the water piping in farm buildings] Sill's'kyi vnutrishnii vodoprovid iz sklienykh trub. Kyiv, Derzhbudvydav URSR, 1963. 30 p. (MIRA 17:1)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

BUBLIK, A., gwardil polkovnik, voyennyy ahturman vtorogo klassa

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(KIRA 18:6)

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AUTHOR: Bublik, B.A.

TITLE: On the Existence of Non-Rigid Closed Surfaces

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol.131, No.4, pp 725-727.

TEXT: Continuing the investigations of N.M.Yefimov (Ref.3) and E.G.Poznyak (Ref.4) and of the own paper (Ref.5) the author constructs the example of a non-rigid regular closed surface with not less than two linearly independent infinitesimal bendings.

The author mentions L.V.Kantorovich. There are 6 Soviet references.

ASSOCIATION: Magnitogorskiy gosudarstvennyy pedagogicheskiy institut (Magnitogorsk State Pedagogical Institute)

PRESENTED: December 1, 1959, by P.S.Aleksandrov, Academician

SUBMITTED: November 20, 1959

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BUBLIK, B. A.

Cand Phys-Math Sci - (diss) "Occurrence of closed surfaces of rotation accessible to not less than two linearly independent infinitely small bendings." Moscow, 1961. 7 pp; (Moscow Order of Lenin and Order of Lebor Red Banner State University imeni M. V. Lomonosov) Mechanics-mathematics faculty); 200 copies; price not given; (KL, 5-61 sup, 172)

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307210011-6

BUBLIK, B.A.

Number of fundamental infinitesimal deformations of closed finned surfaces of revolution. Usp. mat. nauk 18 no.2:121-125 kr-Ap '63. (MIRA 16:8)

(Surfaces, Deformation of)

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AUTHORS: Bublik, B.N., and Merkulov, V.I. (Kiyev)

TITLE: On the Dynamic Stability of Thin Elastic Shells Filled up With a

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol.24, No.5, pp.941-946

TEXT: The authors consider a thin elastic shell the inner cavity of which is entirely or partially filled with an ideal incompressible fluid. The question for the dynamic stability leads to the solution of the variation problem .

(1.1) $\delta \int_{0}^{t} (T''-A''-U'')dt = 0,$

where T" and U" are the kinetic and the potential energy of the disturbed system, while A" is the work of a certain reduced load on the shifts of the disturbance and is defined as in (Ref.2). If the inertia terms can be neglected or if the initial state of the shell is almost free of moments it holds

(1.5) $A'' = \frac{1}{2} \iint \left[F_{\chi} u + F_{\eta} v + F_{\eta} w \right] d\mathcal{G},$ Card 1/5

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On the Dynamic Stability of Thin Elastic Shells Filled up With a Fluid

$$\stackrel{F_{\rho}}{\stackrel{1}{\text{Pe}}} \left[\frac{\partial}{\partial \rho} \left(\mathcal{E}_{1} \text{PT}_{2}^{0} \right) - \text{Tr}_{1}^{0} \frac{\partial}{\partial \rho} \left(\mathcal{E}_{1} \text{P}) + \frac{\partial}{\partial \omega} \left(\mathcal{E}_{2} \text{PS}^{0} \right) + \text{S}^{0} \frac{\partial}{\partial \omega} \left(\mathcal{E}_{2} \text{Q} \right) - \text{Q}_{\rho} \left(\mathcal{E}_{1} + \mathcal{E}_{2} \right) \right]$$

$$\stackrel{F_{n}}{\stackrel{1}{\text{Pe}}} = \stackrel{T_{1}}{\text{Tr}_{1}} \mathcal{H}_{1} + \text{Tr}_{2}^{0} \mathcal{H}_{2}$$

$$F = \frac{1}{FQ} \left(\frac{\partial}{\partial x} (\mathcal{E}_2 Q T_1^0) - T_2^0 \frac{\partial}{\partial x} (\mathcal{E}_2 Q) + \frac{\partial}{\partial y} (\mathcal{E}_1 Q S^0) + S^0 \frac{\partial}{\partial \beta} (\mathcal{E}_1 P) - q_{g}(\mathcal{E}_1 + \mathcal{E}_2).$$
The and lateron Σ is the middle specific to the production.

Here and lateron Σ is the middle curface; α' , β are its curvilinear coordinates; n is its normal; Γ and Q are the coefficients of its first fundamental form; u,v,v, α are shifts corresponding to α',β',n ; m_0 and gare mass densities of the surface of the shell and the volume of the fluid; $\xi_1, \xi_2, \omega', \chi_1, \chi_2$, Care relative deformations of the shell expressed by u,v,v according to the linear theory of shells; T_1^0, T_2^0,S^0 are stresses of the undsturbed shell by which the initial state free of moments is characterised; $Q_{\alpha'}Q_{\beta'}, Q_{\alpha}$ are the outer loads; a is the acceleration of the

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On the Dynamic Stability of Thin Elastic Shells Filled up With a Fluid

translation of motion of the system; V is the volume of the fluid, φ is the velocity potential of the fluid in V; Σ_1 is the part of the boundary of V where $\frac{3\varphi}{2h}$ is known; Σ_2 is the part of the boundary of V where φ is known; G is the Green's function of the Neumann-Dirichlet problem for the Laplace equation in V.

(1.6) $\varphi = \iint_{\mathbb{R}^{3}} G \frac{\partial \varphi}{\partial n} dG - \iint_{\mathbb{R}^{3}} \frac{\partial G}{\partial n} \varphi dG.$

The solution of (1.1) leads to four differential equations

$$\begin{array}{ll} (1.7) & \mathbf{L}_{11}(\mathbf{u}) + \mathbf{L}_{12}(\mathbf{v}) + \mathbf{L}_{13}(\mathbf{w}) + \frac{1-\mathbf{v}^2}{\mathbf{E}h} \left[\mathbf{F}_{\mathbf{x}} - \mathbf{m} \frac{3^2\mathbf{u}}{o^2\theta^2} \right] = 0 \\ & \mathbf{L}_{21}(\mathbf{u}) + \mathbf{L}_{22}(\mathbf{v}) + \mathbf{L}_{23}(\mathbf{w}) + \frac{1-\mathbf{v}^2}{\mathbf{E}h} \left[\mathbf{F}_{\mathbf{g}} - \mathbf{m} \frac{3^2\mathbf{v}}{o^2\sqrt{2}} \right] = 0 \\ \end{array}$$

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On the Dynamic Stability of Thin Elastic Shells Filled up With a Fluid

The boundary conditions correspond to the clamping of the boundary of the shell [Abstracter's note: not given] and p:

(1.8)
$$\frac{\partial^2 \theta}{\partial t^2}$$
 +a $\frac{\partial \varphi}{\partial z}$ = 0 on the free surface $z = 0$

(1.9)
$$\frac{\partial \Phi}{\partial n} = \frac{\partial w}{\partial t}$$
 on the wetted inner surface.

The operators L,M,E,N and the vector $X(u,v,w,\phi)$ can be introduced so that (1.7) assumes the form

(2.1)
$$LX+MX+E \frac{\partial^2 x}{\partial t^2} + N \frac{\partial x}{\partial t} = 0.$$

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On the Dynamic Stability of Thin Elastic Shells Filled up With a Fluid Here L.M.F.N satisfy all conditions for the existence and uniqueness of a generalized solution according to the theorem 3 of Vishik (Ref. 6). cylindrical shell filled with a fluid, with a flexibly clamped boundary. of which yields the eigenfrequencies of Hill's equations the investigation leads to a system of Hill's equations the investigation shell if fluid. If especially the shell is filled completely with a fluid shell is fluid. If especially the shell is filled completely with a fluid loads can be answered with the aid of the stability diagram for the The authors thank N.N.Mojseyev for the theme and advices. There are 6

[Abstracter's note: (Ref.2) concerns V.V.Bolotin, Dynamic Stability of Akademii nauk SSSR, Vol.100, No.5]
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